



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/660,917	09/13/2000	Matthias Wendt	PHD 99,182	7454

24737 7590 09/15/2003

PHILIPS INTELLECTUAL PROPERTY & STANDARDS  
P.O. BOX 3001  
BRIARCLIFF MANOR, NY 10510

EXAMINER

TAKAOKA, DEAN O

ART UNIT

PAPER NUMBER

2817

DATE MAILED: 09/15/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	09/660,917	WENDT ET AL.
	Examiner Dean O Takaoka	Art Unit 2817

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

1) Responsive to communication(s) filed on June 10, 2003 (paper no. 18) .

2a) This action is **FINAL**.                    2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

4) Claim(s) 1 and 4-16 is/are pending in the application.

4a) Of the above claim(s) 1 and 4-11 is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 12-14 is/are rejected.

7) Claim(s) 15 and 16 is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 13 September 2000 is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on \_\_\_\_\_ is: a) approved b) disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some \* c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_ .
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

1) Notice of References Cited (PTO-892)                    4) Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_ .

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)                    5) Notice of Informal Patent Application (PTO-152)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_ .                    6) Other: \_\_\_\_\_ .

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 12 – 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Spreen (US Patent No. 5,168,440) in view of Duspiva et al. (U.S. Patent No. 4,965,712).

#### Claim 12:

Duspiva et al. (Fig. 1) shows a coupler transformer having a core (16), the core having a closed perimeter of a thickness (core 16 being a closed loop), the coupler also including a primary winding (20 - defined by the Examiner as the primary; transformer windings being reciprocal) within the perimeter of the core, the secondary winding (14 – defined by the Examiner as the primary; transformer windings being reciprocal) being wrapped plural times around the thickness of the perimeter without crossing the primary windings, the secondary winding being comprised of a wire that is a plurality of times thinner than the primary windings (Figs. 1, 2 and 3) the secondary winding being wrapped around the core a larger number of times than the primary windings combined (Fig. 1 where 14 is wrapped 5 times versus the single turn secondary 20); but does not show the secondary being wrapped plural times around the thickness of the perimeter of the core.

Spreen (Fig. 2) shows a similar coupler transformer with a well-known art-recognized equivalent secondary (145) being wrapped plural times around the thickness of the perimeter of the core.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have substituted the secondary disclosed by Duspiva et al. with the plural secondary disclosed by Spreen. Such a modification would have been a mere substitution of well-known art-recognized equivalent secondary windings; further in that Duspiva et al. and Spreen show connections at each side of the secondary winding connecting similar circuits including dual diodes; further in that Duspiva et al. suggests other plural windings (not shown – col. 3, lines 24-28) thus suggesting the obviousness of the modification.

Claim 13:

Where the primary coils are wired symmetrically to induce identical currents (where Duspiva et al. shows a symmetrical primary winding/s in Figs. 2, 3 and 5, and Spreen showing symmetrical primary windings Figs. 2 and 5).

Claim 14:

Where the number of turns in the secondary coil (14 – Duspiva et al.) is at least five times the number of times the number of turns in the secondary (where secondary 14 is shown as 5 turns and primary 20 is 1 turn; and col. 3, lines 18-28)

***Allowable Subject Matter***

Claims 15 and 16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Conclusion***

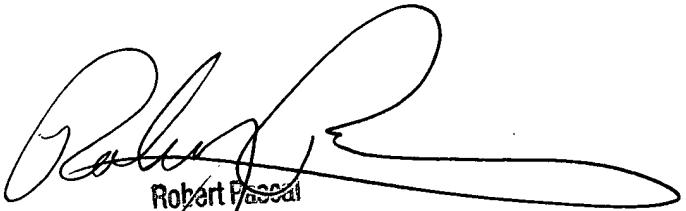
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dean O Takaoka whose telephone number is (703) 305-6242. The examiner can normally be reached on 8:30a - 5:00p Mon - Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (703) 308-4909. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Dean O Takaoka  
Examiner  
Art Unit 2817

September 2, 2003

  
Robert Pascal  
Supervisory Patent Examiner  
Technology Center 2800